

## **SPECIFICATION AMENDMENTS**

**[0002]** Please amend the specification as follows:

Substitute the paragraph [0038] beginning at page 9, with the following:

**[0038]** Fig. 4 illustrates an exemplary counterfeit and tamper resistant label production and verification method 400. The method 400 scans a raw label (402) such as those discussed with reference to Figs. 2 and 3 to provide data regarding physical features of the raw label (e.g., the coordinates of the ends of fiber optic strands present on a label). The scanned data may be optionally compressed (404) to lessen the required storage capacity as will be further discussed below with respect to the section entitled “fiber data compression.” The data from the scanned raw label (402) is encoded (406) to provide a cryptographic medium certificate (MC). The medium certificate is envisioned to securely identify the unique fiber pattern on the label. In one implementation, the medium certificate may be cryptographically signed with a private key as will be further discussed with reference to Fig. 5.

Substitute the paragraph [0066] at page 19, with the following:

**[0066]** Perfect Health stamps a product-specific application certificate on each universal label, using the method discussed with reference to Fig. 6. It then puts such a label of authenticity into each bottle (box) of drugs that it distributes to the pharmacies. In addition, Perfect Health also purchases from Universal Labels a number of verification systems (see, e.g., Fig. 8) and ~~configure~~ configures them to use its own public key for verifying application certificates. Some of these devices are installed at pharmacies where Perfect Health's drug X is sold.

Substitute the paragraph [0080] at page 23, with the following:

**[0080]** Tamper-evident container seals can add ~~values to~~ value for regular shipping companies. They can also be used for securing cross-ocean shipments to improve national security.